MOB I

WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
56170
Component
Diesel Engine
Fluid
SAE 10W30 (--- LTR)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

WEAR

Metal levels are typical for a components first oil change.

CONTAMINATION

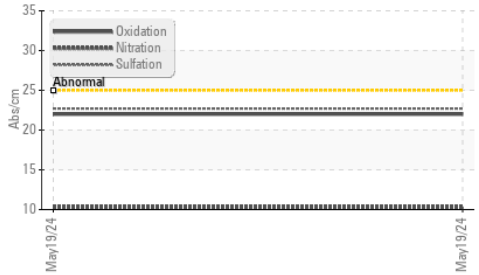
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

FLUID CONDITION

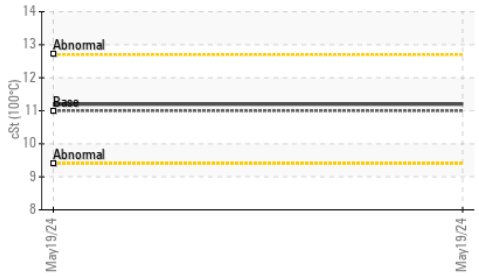
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0935038	---	---
Sample Date		Client Info		19 May 2024	---	---
Machine Age	mls	Client Info		38336	---	---
Oil Age	mls	Client Info		38336	---	---
Filter Age	mls	Client Info		38336	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				NORMAL	---	---
Iron	ppm	ASTM D5185(m)	>100	45	---	---
Chromium	ppm	ASTM D5185(m)	>20	11	---	---
Nickel	ppm	ASTM D5185(m)	>4	<1	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---
Silver	ppm	ASTM D5185(m)	>3	0	---	---
Aluminum	ppm	ASTM D5185(m)	>20	88	---	---
Lead	ppm	ASTM D5185(m)	>40	<1	---	---
Copper	ppm	ASTM D5185(m)	>330	60	---	---
Tin	ppm	ASTM D5185(m)	>15	2	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
Silicon	ppm	ASTM D5185(m)	>25	6	---	---
Potassium	ppm	ASTM D5185(m)	>20	161	---	---
Fuel		WC Method	>5	<1.0	---	---
Water		WC Method	>0.2	NEG	---	---
Glycol		WC Method		NEG	---	---
Soot %	%	ASTM D7844*	>3	0.4	---	---
Nitration	Abs/cm	ASTM D7624*	>20	10.3	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.7	---	---
Emulsified Water	scalar	Visual*	>0.2	NEG	---	---
Sodium	ppm	ASTM D5185(m)	>228	4	---	---
Boron	ppm	ASTM D5185(m)		6	---	---
Barium	ppm	ASTM D5185(m)		<1	---	---
Molybdenum	ppm	ASTM D5185(m)		61	---	---
Manganese	ppm	ASTM D5185(m)		2	---	---
Magnesium	ppm	ASTM D5185(m)		945	---	---
Calcium	ppm	ASTM D5185(m)		1242	---	---
Phosphorus	ppm	ASTM D5185(m)		919	---	---
Zinc	ppm	ASTM D5185(m)		1179	---	---
Sulfur	ppm	ASTM D5185(m)		1741	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	22.0	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	11.0	11.2	---	---

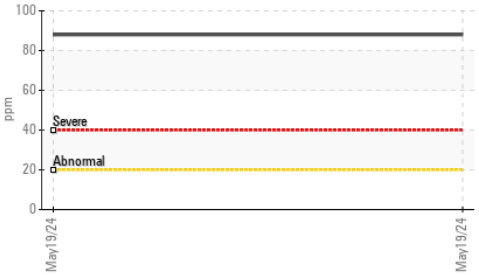
FT-IR (Direct Trend)



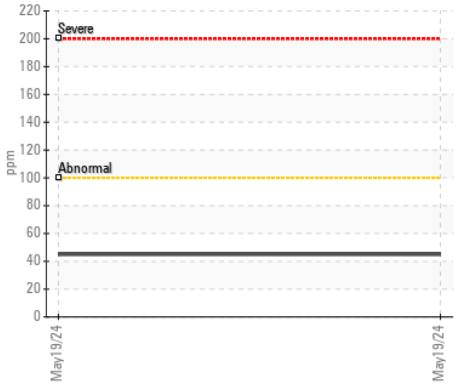
Viscosity @ 100°C



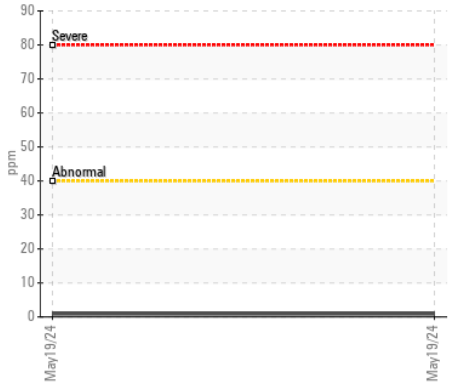
Aluminum (ppm)



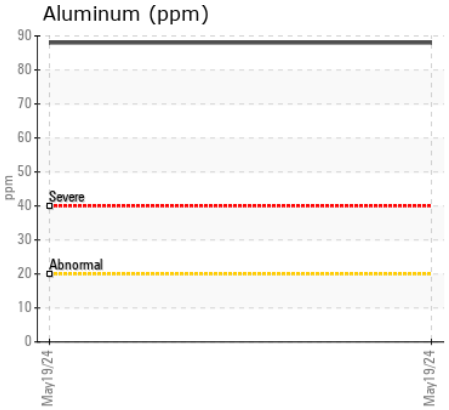
Iron (ppm)



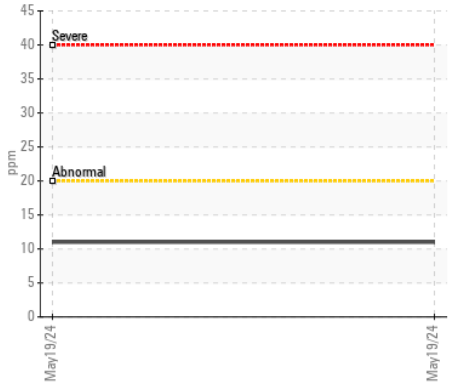
Lead (ppm)



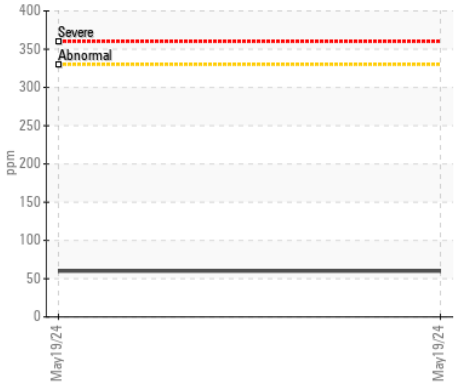
Aluminum (ppm)



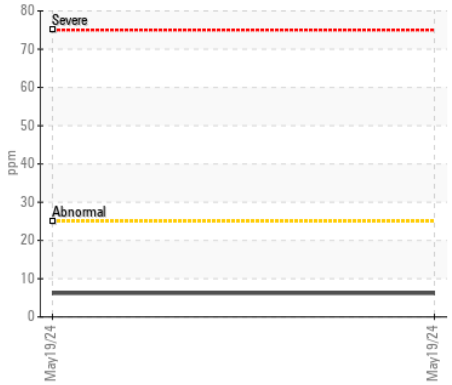
Chromium (ppm)



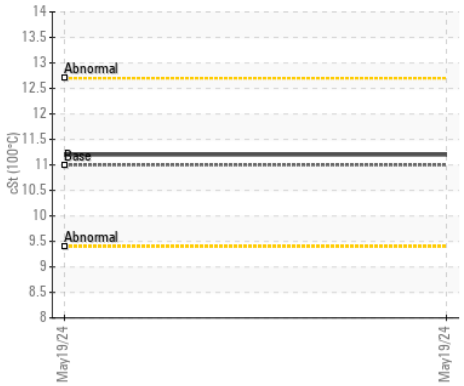
Copper (ppm)



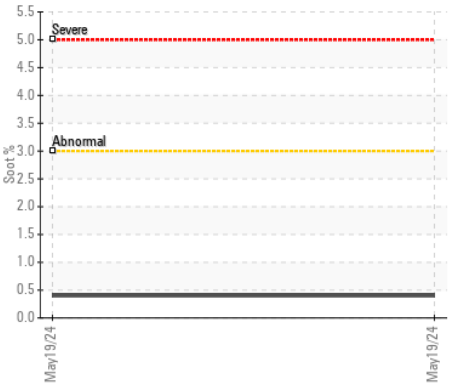
Silicon (ppm)



Viscosity @ 100°C



Soot %



ISO 17025:2017 Accredited Laboratory

Laboratory	: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9		
Sample No.	: WC0935038	**Received**	: 06 Jun 2024
Lab Number	: 02640153	**Tested**	: 06 Jun 2024
Unique Number	: 5789315	**Diagnosed**	: 06 Jun 2024 - Wes Davis
Test Package	: MOB 1		

To discuss this sample report, contact Customer Service at 1-800-268-2131.
Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
Validity of results and interpretation are based on the sample and information as supplied.

MANITOULIN TRANSPORT
75 MUMFORD ROAD
LIVELY, ON
CA P3Y 1L1
Contact: Todd Smith
tosmith@manitoulintransport.com
T: (705)562-3302
F: x: